ABSTRACT

STORAGE DEVICE, PROGRAM FOR CONTROLLING STORAGE DEVICE, METHOD FOR CONTROLLING STORAGE DEVICE AND RECORDING MEDIUM

A method and system for rewriting data on a tape when an error occurs during an initial write operation. When the initial write error occurs, the data is rewritten at a location that is a pre-defined block gap distance from the last valid write location on the tape. By measuring the length of the pre-defined block gap distance, the cause or causes of the write error or errors are known. Thus, the pre-defined block gap not only ensures that the data is not re-written in a no-write zone of the tape, due to the zone known to be error prone, but a historical record of past write errors is logged based on the length of the block gaps.